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(54) **Call admission control method and cell flow monitoring method in the same method.**

(57) In a network in which all of information from terminals (1, 2, ...) having various traffic characteristics are transmitted/switched by a fixed length block including a virtual channel id, a terminal (1) requesting communication declares destination address information and traffic characteristics of the requested communication upon set-up to a network (15). The exchange (15) in the network expresses traffic characteristics of an individual terminal j and an offered load (estimated cell flow) in the network as follows. That is, the traffic characteristics of each terminal j are expressed as a maximum cell flow $a(j,i)$ ($i = 1, 2, \dots, n$) generated from the terminal in time units $\Delta t(i)$ ($i = 1, 2, \dots, n$) having n predetermined lengths. The predicted offered load of the line supposing that a new request call is accepted is expressed as an estimated cell flow $A'(i)$ ($i = 1, 2, \dots, n$) predicted to be transmitted to the line in the time unit $\Delta t(i)$ by using traffic characteristic values $a(j,i)$ ($i = 1, 2, \dots, n$ and $j = 1, 2, \dots, k, k+1$) of the calls j ($j = 1, 2, \dots, k$) currently transitting on the line and a new request call $k+1$. In a call admission control method, the estimated cell flow $A'(i)$ is compared with an admissible maximum allowable cell flow of line $A_{\max(i)}$ obtained from a circuit capacity, thereby determining "accept" or "reject" of admission of the request call. In a cell flow monitoring method, a cell flow generated from a terminal j in time units $\Delta t(i)$ ($i = 1, 2, \dots, n$) having a plurality of lengths is counted in a

plurality of time units $\Delta t(i)$. If a cell flow in any one time unit $\Delta t(i)$ exceeds a traffic characteristic value $a(j,i)$ grasped beforehand by a network, "violation" is determined for the terminal j , and a regulation sequence is performed.

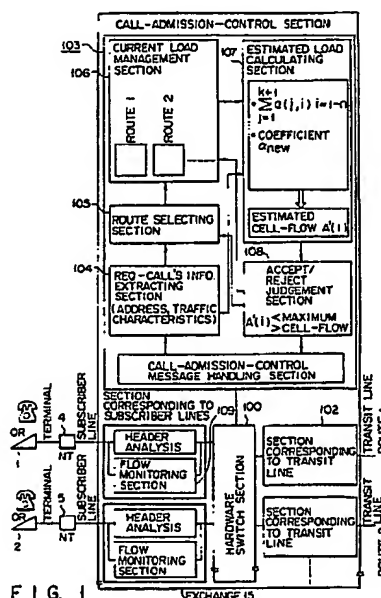


FIG. 1

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EUROPEAN SEARCH REPORT

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EP 90 30 1910

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	CONFERENCE RECORD OF THE IEEE GLOBAL TELE-COMMUNICATIONS CONFERENCE AND EXHIBITION, Hollywood, Florida, 28th November - 1st December 1988, vol. 1, pages 7.1.1 - 7.1.5; G.M. WOODRUFF et al.: "A congestion control framework for high-speed integrated packetized transport" * Page 7.1.2, section 3 - page 7.1.3, section 3.1.2; page 7.1.3, section 4 - page 7.1.4, section 4.2 * - - -	1-3	H 04 L 12/56
X	PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON SUBSCRIBER LOOPS AND SERVICES, Boston, MA, 11th - 16th September 1988, pages 12.2.1 - 12.2.6; W. KOWALK et al.: "The "policing function" to control user access in ATM networks" * Section 4, pages 12.2.4 - 12.2.6 * - - -	3	
A	US-A-4 611 322 (LARSON et al.) * Abstract; figure 1; column 9, line 16 - column 10, line 51 * - - - - -	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 02 August 91	Examiner ALI A.M.A.Y.
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